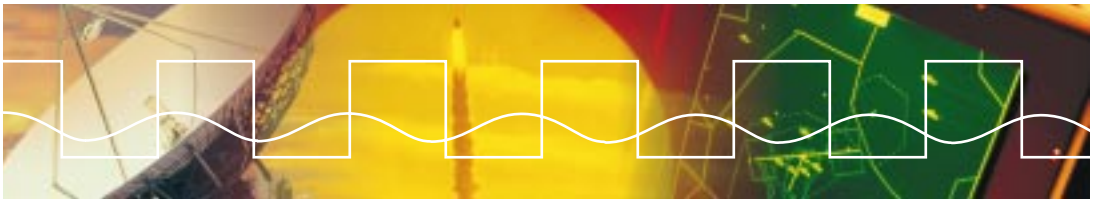
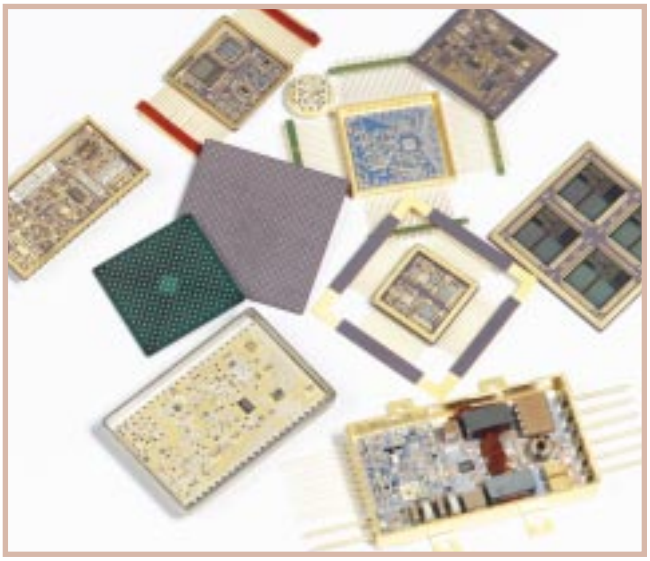


Mixed-Signal Processing and Power Conversion Solutions for Military/Aerospace



With access to a broad portfolio of leading edge mixed-signal silicon and the associated intellectual property, we provide standard product and customer-unique solutions that are highly optimized and cost effective.

ANALOG DEVICES: THE LEADER IN MIXED-SIGNAL INTEGRATION

When mixed-signal design is in your critical path, or if standard PCB interconnects are limiting your ability to meet challenging subsystem specifications, our Multichip Products Group works with you as a design partner to help you achieve higher levels of performance, ruggedness and density, while reducing development risks and system-level costs. Our high density interconnect provides performance improvements and design optimization based around commercial off-the-shelf (COTS) silicon, turning difficult specifications into fully tested, characterized and ready-to-deploy hardware.

High speed embedded interconnect is a critical component of many designs. True design optimization is made possible by combining interconnect analysis with IC analysis and evaluating against thermal/mechanical constraints as well.

Combining a broad portfolio of in-house (and third-party) signal processing silicon – along with 30 years of high performance interconnect and module integration experience – plus a distinguished QML manufacturing facility, our design/test teams are able to understand and optimize the critical electrical/thermal/mechanical requirements of our military/aerospace application customers.

MULTICHIP PRODUCTS GROUP

Here is just a sampling of what working with Analog Devices can bring to you and your designs:

- Mixed-signal experience, personnel and tools for full subsystem design and test; proven, characterized and repeatable performance
- Intimate knowledge of performance and characteristics of Analog Devices' proprietary silicon
- High density interconnect for performance improvements and optimization
- Continued strong support of military/aerospace system integrators
- Application-oriented design, test and support – "COTS without Compromise"

ANALOG DEVICES

MIXED-SIGNAL DESIGN AND TESTING*

Signal and noise analysis: PSPICE, Allegro, SigNoise, ADICE, MATHCAD

Thermal mechanical analysis: NASTRAN

Capture and layout: TANGO, Allegro, Serenade, Viewlogic

Testability: ASSET, Teradyne-Catalyst, CTS mainframes, PC-based systems

OPTIMIZED PERFORMANCE

High dynamic performance

Channel-to-channel matching

Proven isolation techniques

Electrical, thermal, mechanical optimization

Precision laser-trimmed resistor networks

Design-for-test/manufacturing/cost

CUSTOMER-UNIQUE AND STANDARD PRODUCTS

High speed ADCs and DACs

Multichannel converters

DC/DC converters

Multiprocessing DSPs

RF/IF to digits

Synchro-to-digital converters

Power amp controllers

APPLICATIONS

Radar and IR seeker electronics for missiles and smart munitions

Telecommunications satellite payload electronics

Phased array radar electronics

Avionics modules

High end industrial

- Telecommunications
- Imaging

PROVEN TRACK RECORD

Alenia

Boeing

CDC

DASA

GEC-Marconi

Hughes Space and Communications

Lockheed Martin

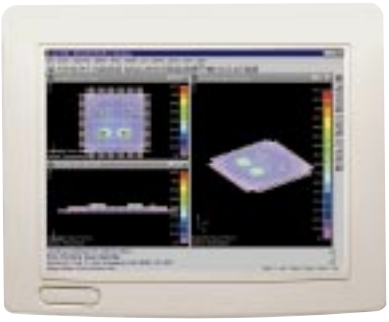
Northrop

Racal

Raytheon

SAAB

Many others...



Application-oriented design optimization for the unique thermal/mechanical/electrical needs of military and aerospace applications.

OUR TECHNOLOGY

Facility	QML-38534 ISO-9001
Interconnect	Co-Fired Ceramic Thick Film Thin Film Laminate Leaded and BGA
Assembly	*Au/Al* Wirebonding Flip-Chip Epoxy, Eutectic, ThermoPlastic Attach
Seal	Hermetic Epoxy Dam and Fill
Test	Teradyne-Catalyst, J971, J953 PC-Based CTS
Other	Radiation Testing ASICs

Test, qualification and characterization cost-effectively tailored to application requirements. 100% functional and performance test coverage on production IC-level testers.

CUSTOMER-UNIQUE PRODUCT SUPPORT AND GENERAL CAPABILITIES INFORMATION

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